# BRUHAT BANGALORE MAHANAGARA PALIKE

## Development of Playground @ ward no 17, J.P.Park

(29)

### Detailed Estimate

| SL No. | Specification | No | L | B | D | Quantity | Unit | Rate ( in Rs.) | Amount (in Rs) |
|---|---|---|---|---|---|---|---|---|---|
| 1 | **R.C.C. Wall and grill work** | | | | | | | | |
| 1.1 | KSRRB M200-15.2. Dismantling of existing structures like culverts, bridges, retaining walls and other structure comprising of masonry, cement concrete, wood work, steel work, including T&P and scaffolding wherever necessary, sorting the dismantled material, disposal of unserviceable material and stacking the serviceable material with all lifts complete as per specifications. iii) Dismantling Stone Masonry. A. Rubble Stone masonry in cement mortar. MORTH Specification No. 202 | | | | | | | | |
| | | 1 | 90.00 | 0.60 | 0.90 | 48.60 | | | |
| | | 75 | 0.45 | 0.45 | 2.00 | 30.38 | | | |
| | | | | | | 78.98 | cum | 180.20 | 14,231 |
| 1.2 | KSRRB M200-29. Dismantling of barbed wire fencing / wire mesh fencing including posts, foundation concrete, back filling of pit by manual means including disposal of dismantled material with all lifts and stacking serviceable material and unserviceable material separately complete as per specifications. MORTH Specification No. 202 (P W D BCSR 2012-13 P-147 I-18.54) | | | | | | | | |
| | | 1 | 75.00 | | 2.20 | 165.00 | | | |
| | | 1 | 117.00 | | 5.30 | 620.10 | | | |
| | | | | | | 785.10 | mtr | 29.68 | 23,302 |
| 1.3 | KSRB 2-2.2 : Earthwork excavation for foundation of buildings, water supply, sanitary lines and electrical conduits either in pits or in trenches 1.5m and above in width, **in hard soil** not exceeding 1.5 m. in depth including dressing the bottom and sides of pits and trenches, stacking the excavated soil clear from edges of excavation with lead upto 50 m. after breaking of clods complete as per specifications. specification. No. KBS 2.1(b) / 2.3.5 (P W D BCSR 2012-13 P-5 I-2.4) | | | | | | | | |
| | for wall base | 165 | 1.50 | 0.60 | 0.60 | 89.10 | | | |
| | footing | 165 | 1.80 | 1.50 | 1.50 | 668.25 | | | |
| | | | | | | 757.35 | cum | 198.22 | 150,122 |
| | lift above 1.5 mtr height (item 2.21) | 165 | 1.80 | 1.50 | 0.45 | 200.48 | cum | 207.07 | 41,513 |



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| SL No. | Specification | No | L | B | D | Quantity | Unit | Rate ( in Rs.) | Amount (in Rs) |
|---|---|---|---|---|---|---|---|---|---|
| 1.4 | KSRB 4-1.3 : Providing and laying in **position plain cement concrete of mix M10** with OPC cement @ 220kgs, with 40mm and down size graded granite metal coarse aggregates @0.892cum and fine aggregtes @ 0.465cum machine mixed, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation and plinth, including cost of all materials, labour, HOM of machinery, curing complete as per specifications. Specification No. KBS 4.1, 4.2 (P W D BCSR 2012-13 P-12 I-4.2) | | | | | | | | |
| | for wall base | 165 | 2.80 | 0.60 | 0.15 | 41.58 | | | |
| | footing | 165 | 1.80 | 1.50 | 0.15 | 66.83 | | | |
| | | | | | | 108.41 | cum | 4053.44 | 439,413 |
| | | | | | | | | | |
| 1.5 | KSRB 5.2-3: Providing & constructing granite/trap/basalt size stone masonry in foundation in cement mortar 1:6, stone hammered dressed in courses not less than 20cms high, bond stones at two m apart in each course including cost of all materials, labour, curing complete as per specifications PWD SR 2012 - 13; Page No. 25, Item No. 5.6 | | | | | | | | |
| | for wall base | 165 | 2.80 | 0.45 | 0.60 | 124.74 | cum | 2710.42 | 338,098 |
| | | | | | | | | | |
| 1.6 | providing and laying in position **plain cement concrete of mix M15** with cement @ 240kgs, with **20mm** and down size graded granite metal coarse aggregates @ 0.878cum and fine aggregates @ 0.459cum machine mixed, machine mixed,concrete laid in layers not exceeding 15cms. Thick, well compacted, **in foundation and plinth,** including cost of all materials, labour, HOM of machinery, curing complete as per specifications.specification. NO. KBS 4.1, 4.2 PWD SR 2012- 13; Page No. 12; Item No. 4.6 | | | | | | | | |
| | for wall base | 165 | 2.80 | 0.45 | 0.10 | 20.79 | cum | 4327.98 | 89,979 |
| | | | | | | | | | |
| 1.7 | KSRB 15.1.3: Providing **ruled pointing** to coursed stone masonry with cement mortar 1:3, 20mm deep, after raking joints to depth of 20mm nicely lining, including cost of materials, labour, curing complete as per specifications.PWD SR 2012 - 13; Page No. 120, Item No. 15.3 | | | | | | | | |
| | **for wall base** | 165 | 2.80 | 0.15 | 0.10 | 69.3 | sqm | 70.27 | 4,870 |
| | | | | | | | | | |
| 1.8 | KSRB 4.2.2 : Providing and laying in position **reinforced cement concrete of design mix M20** with OPC cement @ 320kgs, with 20mm and down size graded granite metal coarse aggregates @0.878cum and fine aggregtes @ 0.459cum, with superplastisiser @3lts confirming to IS9103-1999 Reaffirmed-2008, machine mixed, concrete laid in layers not exceeding 15 cms thick, vibrated for all works in foundation plinth and ground floor level for roof slabs, staircase, lintles, ing walls, return walls, walls ( any thickness ) including attached plasters, columns, piers, abutments, pillars, posts, struts, buttresses, string or lacing courses, parapets, coping, bed blocks, anchor blocks, plain window cills, fillets etc., including cost of all materials, labour, HOM of machinery, curing, complete as per specifications. Specification No. KBS 4.1, 4.6 (P W D BCSR 2011-12 P-13 I-4.11) | | | | | | | | |
| | footing | 165 | 1.50 | 1.20 | 0.30 | 89.10 | | | |



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| SL No. | Specification | No | L | B | D | Quantity | Unit | Rate ( in Rs.) | Amount (in Rs) |
|---|---|---|---|---|---|---|---|---|---|
| | pedestal | 165 | 0.90 | 0.60 | 0.75 | 66.83 | | | |
| | column | 165 | 0.45 | 0.20 | 3.90 | 57.92 | | | |
| | wall | 165 | 2.80 | 0.13 | 3.00 | 173.25 | | | |
| | grill support | 330 | 0.20 | 0.20 | 1.20 | 15.84 | | | |
| | | | | | | 402.93 | cum | 5142.06 | 2,071,890 |
| 1.9 | KSRB 4.9.2 :Providing **T.M.T steel reinforcement** for R.C.C work including straightening, cutting, bending, hooking, placing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost of materials, labour, HOM of machinery complete as per specifications. Specification No. KBS 4.6.3 (P W D BCSR 2012-13 P-19 I-4.46) | | | | | | | | |
| | qty sl no 1.4 ;- 554.92 cum x 80 kg/cumtr =55492 kg | | | | | | | | |
| | | | | | | 322.34 | qtl | 7187.86 | 2,316,964 |
| 1.10 | KSRB 4-6.1 : Providing and removing centering, shuttering, strutting, propping etc., **and removal of form work for foundations, footings,** bases of columns for mass concrete including cost of all materials, labour complete as per specificaitons. Specification No. KBS 4.6.2 (P W D BCSR 2012-13 P-16 I-4.28) | | | | | | | | |
| | footing | 165 | 5.40 | | 0.30 | 267.30 | sqm | 198.22 | 52,984 |
| 1.1 | KSRB 4-6.5 : Providing and removing centering, shuttering, strutting, propping etc., **for columns, pillars,** piers, abutments, post and struts, square / rectangular /polygon in plan including cost of all materials, labour complete as per specificaiton.Specification No. KBS 4.6.2 (P W D BCSR 2012-13 P-17 I-4.32) | | | | | | | | |
| | pedestal | 165 | 3.00 | | 0.75 | 371.25 | | | |
| | column | 165 | 1.30 | | 3.90 | 836.55 | | | |
| | | | | | | 1207.80 | sqm | 298.92 | 361,036 |
| 1.1 | KSRB 4-6.4: Providing and removing centering, shuttering, strutting, propping etc., and removal of form work **for vertical surface such as walls at any thickness,** including attached pilasters, buttresses, plinth and string courses cost of all materials, labour complete as per specifications. Specification No. KBS 4.6.2(P W D BCSR 2012-13 P-17, I-4.31) | | | | | | | | |
| | wall | 330 | 3.00 | | 3.00 | 2970.00 | | | |
| | grill support | 330 | 0.80 | | 1.20 | 316.80 | | | |
| | | | | | | 3286.80 | sqm | 239.56 | 787,386 |
| 1.13 | KSRB15-3.10 : Providing **20mm thick cement plaster in single coat** with cement mortar 1:4, to stone masonry & concrete surface including rounding off corners wherever required smooth rendering, : Providing and removing scaffolding, including cost of materials, labour, curing complete as per specifications (P W D BCSR 2012-13 P-120, I-15.19) | | | | | | | | |
| | wall | 330 | 3.00 | | 3.00 | 2970.00 | | | |
| | column | 330 | 1.30 | | 3.00 | 1287.00 | | | |
| | grill support | 330 | 0.80 | | 1.20 | 316.80 | | | |
| | | | | | | 4573.80 | sqm | 177.02 | 809,654 |



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|---|---|---|---|---|---|---|---|---|---|
| 14 | KSRB 15-15.1 : Providing and applying painting in two coats with plastic emulsion paint of approved brand on wall surface to give an even approved shade after thoroughly brushing the surface, free from mortar drops and other foreign matter including preparing the surface even and sand paper smooth, cost of materials, labour, complete as per specifications.with primer (P W D BCSR 2012-13 P-124, I-15.51.2) | | | | | | | | |
| | wall | 330 | 3.00 | | 3.00 | 2970.00 | | | |
| | column | 330 | 1.30 | | 3.00 | 1287.00 | | | |
| | grill support | 330 | 0.80 | | 1.20 | 316.80 | | | |
| | | | | | | 4573.80 | sqm | 72.08 | 329,680 |
| 1.2 | Fabricating, providing and erecting in poiston of **M S Ornamental security Grill without hot dip** using 75 x 12mm M S Flat for alround frame work with verticals at the centre and horizontal centere support M S Square of 20 x20 mm of different heights as shown in the drawing are to be fixed at 16 cms C/C for suqare bars of full height and at 8cms C / C for bottom rods providg ornamental C I Designers at the botom and C I arrows inthe midle and top. The entire frame work is to be fixed by means of expansion bolts to the brick pillars with necesary drillling holes. the work includes providng two coats of enamel painting over one coatr of red lead ready mix primer coat etc complete cost of all labour, painting, erection charges using hoist pulleycranes etc as per specification and drawings (P W D BCSR 2012-13 P-46, I-7.33) 20kg/Sqmtr | | | | | | | | |
| | | 1 | 462.00 | 1.20 | 20.00 | 11088.00 | kgs | 136.74 | 1,516,173 |
| 1.2 | KSRB 2.3 : Filling available excavated earth ( excluding rock ) in sides of foundations upto plinth in layers not exceeding 20 cms. in depth, compacting each deposited layer by ramming after watering with lead upto 50 m. and lift upto 1.5 m. including cost of all labour complete as per specifications. specification. No. KBS 2.9 (P W D BCSR 2012-13 P-6, I-2.10) | | | | | | | | |
| | | 330 | 1.80 | 1.50 | 1.00 | 891.00 | | | |
| | | 330 | 2.80 | 0.15 | 0.60 | 83.16 | | | |
| | | | | | | 974.16 | cum | 89.04 | 86,739 |
| 1.2 | Miscellaneous | | | | | | | | 658 |
| | | | | | | **Sub-total** | | | **9,434,690** |
| | | | | | | | | | |
| 2 | **Toilet repair works** | | | | | | | | |
| 2.1 | KSRB 7.4 : Providing and fixing 1mm thick M.S. sheet garage door with frame and diagonal braces of size 40x40x6 mm angle Iron, using M.S. flats 30x6 mm for diagonal braces and central cross pieces 3.15mm thick M.S. Gusset plates at the junctions and corners, with handles, stoppers and locking arrangements etc., including applying a priming coat of red lead paint cost of materials, labour, HOM of machinery complete as per specifications. Specification No. KBS 7.9 / 7.12 (P W D BCSR 2012-13 P-36 I-7.4) | | | | | | | | |
| | door | 2 | 0.90 | | 2.10 | 3.78 | | | |
| | window | 2 | 1.50 | | 1.20 | 3.60 | | | |
| | | | | | | 7.38 | sqm | 2145.44 | 15,833 |
| | | | | | | | | | |



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| SL No. | Specification | No | L | B | D | Quantity | Unit | Rate ( in Rs.) | Amount (in Rs) |
|---|---|---|---|---|---|---|---|---|---|
| 2.2 | KSRB 11-11.5 : Providing and fixing white vitreous china clay, flat back wash basin size 450x300mm with a single 15mm C.P brass pillar tap with C.I / M.S brackets, 32 mm C.P. brass waste of standard pattern, painting of fittings and brackets, cutting and making good the wall and floor wherever required, including cost of materials, labour complete as per specifications. Specification No. KBS 11 (P W D BCSR 2012-13 P-82 I-12.27) | | | | | | | | |
| | | 2 | | | | 2.00 | Unit | 1958.88 | 3,918 |
| 2.3 | providing and fixing 3mm. thick reeded glass with teakwood beading of required size, (P W D BCSR 2012-13 P-XIII I-377) | | | | | | | | |
| | | 2 | 1.50 | | 1.20 | 3.60 | sqm | 260.00 | 936 |
| | | | | | | | | | |
| 2.4 | KSRB 11-7.1: Providing and fixing white vitreous china clay, flat back, lipped front urinal basin of 430x260x350mm with 5 litres PVC automatic flushing cistern, C.I/M.S brackets, standard flush pipe and C.P. brass spreaders ewith brass unions and G.I. clamps complete painting of fittings and brackts, cutting and making good the wall and floor whereever required, including cost of materials, labour complete as per specifications . Specifications No. KBS 11 (P W D BCSR P-79 I-12.7) | | | | | | | | |
| | | 1 | | | 2.00 | 2.00 | Unit | 2446.48 | 4,893 |
| 2.5 | KSRB 11-2: Providing and fixing white vitreous china clay, water closet Orissa pattern of size 580 x 440mm with integral type footrsts, 100mm S or P trap, 10 litre low level, P.V.C flushing cistern (all are approved make) with fittings, C.I/M.S brackets, 32mm diameter flush pipe fittings and clamps, overflow arrangements with special and 25 mm mosquito proof coupling of approved design, painting of fittings and brackets, cutting and making good the wall and floor wherever required, including cost of materials, labour complete as per specifications . Specifications No. KBS 11 (P W D BCSR P-78 I-12.2) | | | | | | | | |
| | | 1 | | | 3.00 | 3.00 | Unit | 3404.72 | 10,214 |
| | | | | | | | | | |
| 2.6 | Fabricating, providing and erecting in poiston of Hot dip galvanised M.S.Ornamental security Grill Gate using 75 x 12mm M S Flat for alround frame work with verticals at the centre and horizontal centere support M S Square of 20 x20 mm of different heights as shown in the drawing are to be fixed at 16 cms C/C for suqare bars of full height and at 8cms C / C for bottom rods providg ornamental C I Designers at the botom and C I arrows inthe midle and top. The entire frame work is to be fixed by means of expansion bolts to the brick pillars with necesary drillling holes. the work includes providng two coats of enamel painting over one coat of red lead ready mix primer coat etc complete cost of all labour, painting, erection charges using hoist pulleycranes etc as per specification and drawings. (P W D BCSR 2012-13 P-46, I-7.32) 50 kg/sqm | | | | | | | | |
| | Gates | 3 | 3.00 | 2.00 | 50.00 | 900.00 | | | |
| | | | | | | 900.00 | kgs | 160.06 | 144,054 |
| | | | | | | | | | |
| 2.7 | Water supply and sanitary repair works | | | | | | | LS | 1,000 |



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| SL No. | Specification | No | L | B | D | Quantity | Unit | Rate ( in Rs.) | Am |
|---|---|---|---|---|---|---|---|---|---|
| 2.8 | Electrification works | | | | | | | LS | 70,000 |
| 2.9 | Miscellaneous and unforseen charges | | | | | | | LS | 20,000 |
| | | | | | | | | Sub-Total | 270,848 |
| | | | | | | | | Total | 9,705,538 |
| 3 | Consultancy charges, Miscellaneous and rounding off | | | | | | | | 294,462 |
| | | | | | | | | GRAND TOTAL = | 10,000,000 |

**The Total Cost of the work is Rupees One Hundred Lakhs only.**

**Certificate:**

i) The estimation is prepared based on the DPR submited by the consultant as per site condition.

ii) The estimation is prepared based on the PWD BCSR-2012-13

iii) The work spot is within BBMP area

Environmental Engineer (Lakes)
Bruhat Bangalore Mahanagara Palike

Executive Engineer-3 (Lakes)
Bruhat Bangalore Mahanagara Palike

Asst. Conservator of Forests
Bruhat Bangalore Mahanagara

Administrative sanctioned for Rs. 1,00,00,000/-
Rs. one hundred lakhs only
is accorded under
Registered as
Memo No. 05-27/12-13

Chief Engineer
LAKES, BBMP

Technically sanctioned for Rs. 1,00,00,000/-
Rs. one hundred lakhs only
Under
Memo No. TS-29/12-13

cancelled

Chief Engineer
LAKES, BBMP



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